TRANSMISSION CONTROL SYSTEM

ABSTRACT

A transmission system includes a Central Processing Unit (CPU) that controls truck braking energy by sharing energy dissipation between clutch packs. The CPU reduces engine speed and then slips the two clutch packs at the same time to maintain a reduced turbine speed for a torque converter. In another aspect of the transmission system, energy loss is reduced during high draw bar pull conditions. The engine speed is modulated to trim energy peaks at low pushing or pulling speeds. An additional transmission gear reduction restores the lost pushing or pulling forces while generating less heat in the torque converter.